

## ABSTRACT OF THE DISCLOSURE

A dispersion, and a film and optoelectronic devices formed from the dispersion are provided. The dispersion comprising conducting polymer containing particles having  
5 a particle size of less than 450 nm, wherein the conducting polymer comprises substituted or unsubstituted, uncharged or charged polymerized units of thieno[3,4-b]thiophene, and wherein a film drop cast from the dispersion has a conductivity from  $10^{-1}$  to  $10^{-6}$  S/cm measured using the four point probe method.

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